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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/636,136 | 08/06/2003 | Kyung-Joo Suh | 678-1235(P10958) | 2802 |

28249 7590 02/21/2007
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| EXAMINER |
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TRINH, SONNY

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| ART UNIT | PAPER NUMBER |
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2618

| SHORTENED STATUTORY PERIOD OF RESPONSE | MAIL DATE | DELIVERY MODE |
|--|------------|---------------|
| 3 MONTHS | 02/21/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/636,136

Applicant(s)

SUH ET AL.

Examiner

Sonny TRINH

Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 August 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 10 and 11 is/are allowed.
- 6) ☒ Claim(s) 1, 2, 12 and 14 is/are rejected.
- 7) ☒ Claim(s) 3-9 and 13 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 August 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Oath/Declaration

1. An oath or declaration by each actual inventor or inventors listing the entire inventive entity has not been submitted.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. **Claims 1-2, 12,14** are rejected under 35 U.S.C. 102(e) as being anticipated by El-Malki et al. (hereinafter "El-Malki"; U.S. Patent number 6,947,401 B2).

Regarding **claim 1**, with reference to figure 3 (column 4 line 61 to column 5 line 47), El-Malki discloses a method for supporting mobility of a mobile node in a network system including a home agent for managing an address of the mobile node and a plurality of access routers (figure 3), the method comprising the steps of: acquiring by the mobile node a care-of address (CoA) from a first access router when the mobile node is located in the first access router (column 4 line 61 to column 5 line 47); determining by the mobile node whether the first access router provides a regional anchor point (RAP) function; and transmitting a CoA assigned from a second access

router to the first access router by the mobile node that has moved from the first access router to the second access router, when the first access router has a RAP function (column 5 lines 21-47).

Regarding **claim 2**, El-Malki further discloses the determining whether the second access router is located within a predetermined distance from the first access router (figure 4, column 5 line 48 to column 6 line 67).

Regarding **claims 12, 14**, these are the apparatus claim for performing the method claim of claims 1 and 2 (respectively) and are therefore rejected for the same reasons.

Allowable Subject Matter

3. **Claims 3-9, 13** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding **claim 3**, the applied references fail to disclose or render obvious the claimed limitations of the method of claim 1, wherein step (a) comprises the steps of: acquiring a CoA assigned from the first access router; and transmitting a binding update having a home address and the CoA assigned from the first access router to the home agent.

Regarding **claim 4**, the applied references fail to disclose or render obvious the claimed limitations, wherein the method of claim 1, further comprising the step of, upon

receiving the CoA assigned from the second access router, binding by the first access router the received CoA from the second access router with an address of the first access router.

Regarding **claim 8**, the applied references fail to disclose or render obvious the claimed limitations, wherein the method of claim 1, further comprising the step of transmitting the CoA assigned from the second access router to the home agent by the mobile node, if the first access router does not provide a RAP function.

Regarding **claim 9**, the applied references fail to disclose or render obvious the claimed limitations, wherein the method of claim 1, further comprising the step of transmitting the CoA assigned from the first access router to a corresponding node, if the mobile node is located in the first access router.

Regarding **claim 13**, the applied references fail to disclose or render obvious the claimed limitations, specifically wherein the apparatus of claim 12, further comprising a home network that binds, upon receiving a binding message from the mobile node, a CoA included in the received binding message with a home address, and upon receiving packet data from a corresponding node, transmits the received packet data to the bound address designated as a destination address.

4. Claims 10-11 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 10, the applied references fail to disclose or render obvious the claimed limitations of a method for maintaining data transmitted from a corresponding node when a mobile node moves from a home network to an external network in a network system including a home agent for managing an address of the mobile node and a plurality of access routers to which the mobile node can move, the method comprising the steps of: acquiring a care-of address (CoA) assigned from the first access router when the mobile node first has moved from the home network to the external network; determining whether the first access router has a regional anchor point (RAP) function; and designating the first access router as a first RAP and transmitting a binding update having the CoA assigned from the first access router and a home address to the home agent, if the first access router has a RAP function.

CONCLUSION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sonny TRINH whose telephone number is 571-272-7927. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward URBAN can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2618

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

2/13/07


SONNYTRINH
PRIMARY EXAMINER